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(54) **LOGO CONNECTOR**

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USPC **439/76.1**; 439/67

(58) **Field of Classification Search**
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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,447,442 A * 9/1995 Swart 439/77
5,459,637 A * 10/1995 Ma et al. 361/679.41

6,227,872 B1 * 5/2001 Stephenson et al. 439/76.1
6,878,016 B2 * 4/2005 Wulff et al. 439/700
7,160,119 B2 * 1/2007 Rathburn 439/77
8,234,509 B2 * 7/2012 Gioscia et al. 713/300
2010/0330825 A1 12/2010 Fan
2012/0044624 A1 * 2/2012 Hoffman et al. 361/679.21

FOREIGN PATENT DOCUMENTS

JP 2005-174901 7/1993

* cited by examiner

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(57) **ABSTRACT**

An electronic device with a connector system is provided to give a user an improved appearance, functionality, and aesthetics. A connector system may comprise a housing, a circuit board mounted within the housing, and a plurality of externally accessible connectors. The housing may have a front side and a back side. The plurality of externally accessible connectors may be mounted directly on the circuit board within the housing, so that the plurality externally accessible connectors may extend substantially perpendicular from the plane of the circuit board and face the back side of the housing. The plurality of externally accessible connectors may comprise substantially flat metal plate.

14 Claims, 3 Drawing Sheets

